

# 2-WIRE TRANSMITTER FOR LOAD CELLS AND PRESSURE TRANSDUCERS

## CONVERTS mV/V TO 4 TO 20 mA OUTPUT

### PXTX-507



- ✓ Provides Transducer Excitation for One  $\geq 350 \Omega$  Bridge
- ✓ Selectable Input Ranges
- ✓ Works with  $350 \Omega$  to  $5 \text{ k}\Omega$  Strain Sensors
- ✓ Zero and Span Adjustability
- ✓ Converts mV/V Sensor Output to 4 to 20 mA Loop Signal
- ✓ Rugged, Industrial Housing

### SPECIFICATIONS

**Input Span:** User selectable, 0.5 mV/V to 4 mV/V

**Input Impedance:**  $\geq 10 \text{ M}\Omega$

**Output Span:** 4 to 20 mA

**Min Output Current:** 3.75 mA typical

**Max Output Current:** 22 mA typical

**Supply Voltage Range:** 8 to 40 Vdc

**Transducer Excitation:** Selectable,  $350$  to  $500 \Omega$  1.24 Vdc @ 3.54 mA,  $>500 \Omega$  2.5 Vdc @ 3.5 mA; 5.0 mA maximum

**Zero and Span Adjustability:** 10% of any selected range

**Accuracy:** 0.5% of any adjusted span (includes linearity, hysteresis, stability)

**Repeatability:** 0.05% of span

**Response Time:** 200 ms typical

#### Stability:

**Zero:** Within 0.02% of span/ $^{\circ}\text{C}$  or 5  $\mu\text{A}$ , whichever is greater

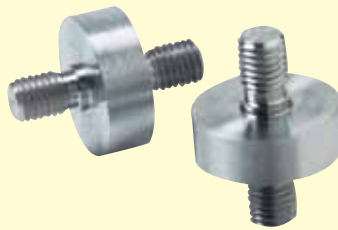
**Span:** Within 0.01% of span/ $^{\circ}\text{C}$

**Max Lead-Wire Resistance Effect:** Less than 0.25  $\mu\text{V}$  per  $\Omega$

**Max Change-in-Supply Voltage Effect:** 0.05% of span over supply range

**Output Ripple:** Less than 0.05% of span, rms

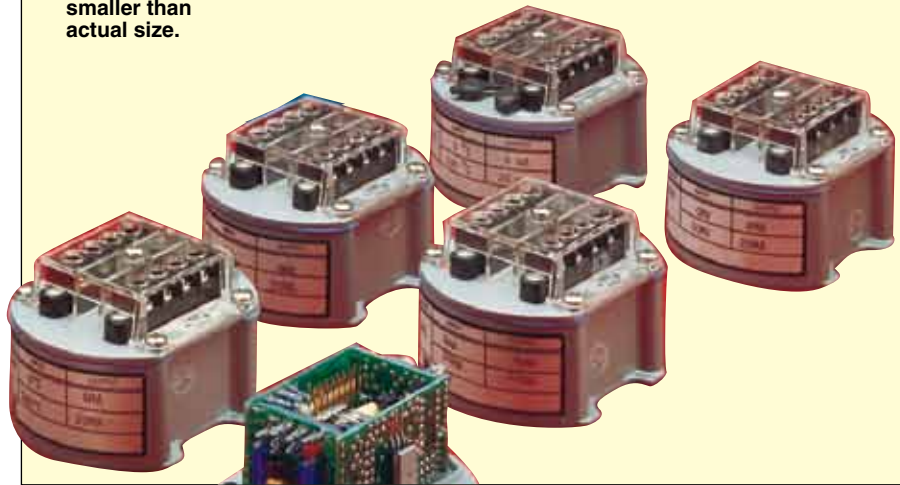
**Operating Temperature Range:** -45 to 85 $^{\circ}\text{C}$  (-49 to 185 $^{\circ}\text{F}$ )



PXTX-507, shown smaller than actual size, with LC201 load cells.



PXTX-507-EPH1 with NEMA 7 enclosure option, shown smaller than actual size.



### To Order

MODEL NO.	DESCRIPTION
PXTX-507	2-wire strain transmitter
-EPH1	NEMA 7 and NEMA 4 (IP65) rated enclosure includes mounting clips, springs and hardware

Comes complete with operator's manual.

Ordering Example: PXTX-507-EPH1, strain transmitter in NEMA 7 enclosure.